

PATENT CLAIMS

1. A planetary gear incorporated in a gear housing with an outer ring and with planet wheels and a sun shaft in particular for use at a high number of revolutions and high gear ratios, **c h a r a c t e r i z e d** in that the gear comprises two essentially diametrically positioned planet wheels (2) which partly roll against the outer ring (4) and partly against a sun shaft (1), said planet wheels (2) being provided with a shaft (3) which is mounted (5) on the stationary front plate (14) and on the support plate (12), respectively.
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- 10 2. A planetary gear according to claim 1, **c h a r a c t e r i z e d** in that the bearings (5) of the planet shafts (3) have a predetermined radial clearance in their bores in the front plate (14) and the support plate (12), respectively.
- 15 3. A planetary gear according to claims 1 and 2, **c h a r a c t e r i z e d** in that the sun shaft (1) is mounted in high speed bearings (6), of which the outermost bearing (6) is mounted in a resilient bushing (7) in the front plate (14) and the innermost bearing (6) in a resilient bushing (7) in the support plate (12).
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- 25 4. A planetary gear according to claims 1 and 2, **c h a r a c t e r i z e d** in that two further planet wheels (13) are mounted, extending in parallel with the planet wheel (2), said further planet wheels (13) extending essentially diametrically opposite such that the four planet wheels (2, 13) engage the sun shaft (1) and the outer ring (4) with a mutual angular position of 90°.